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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,472	06/24/2003	Takakuni Ueno	0152/1H027US1	3214
7278	7590 12/16/2005	EXAMINER		
DARBY & DARBY P.C.			RAO, G NAGESH	
P. O. BOX 52 NEW YORK	257 ., NY 10150-5257		ART UNIT	PAPER NUMBER
			1722	

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/603,472	UENO, TAKAKUNI			
Office Action Summary	Examiner	Art Unit			
	G. Nagesh Rao	1722			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 70,71 and 74 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 71 and 74 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. r election requirement. r. epted or b) □ objected to by the I drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Election/Restrictions

1) Claims 62-69 and 72-73 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/1/05.

Claim Objections

2) Claims 71 and 74 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 71 and 74 refer to the material, its composition, and processes related to it be worked upon by the apparatus and not structurally limiting the apparatus itself.

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Reasons for Allowance

3) This application is in condition for allowance except for the following formal matters:

Claim 70 has been deemed allowable subject matter, however claims 71 and 74 are objected to for not further limiting structurally the apparatus in independent claim 70.

The following is an examiner's statement of reasons for allowance: Claim 70 refers to "A stereolithographic apparatus comprising: supply means of successively supplying a layer of photohardenable resin composition onto a mount table or a photohardened layer formed by hardening photohardenable resin composition, stereolithography means having a light irradiation device for repeating formation lamination of photohardened layers each having predetermined pattern and thickness under control until a desired three dimensional object is formed, temperature adjusting means for setting the temperature of the photohardenable resin composition to a temperature less than the melting temperature thereof, wherein said temperature adjusting means is

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cooling means having control means for keeping, at a temperature less than the melting temperature of the photohardenable resin composition, a photohardenable resin composition layer forming the same surface as a photohardened layer which has been already formed, in the overall or a part of the stereolithographic process; and heating means for heating unhardened photohardenable resin composition existing in an optical stereolithographic system up to a temperature above the melting temperature thereof at some midpoint of or after the end of the stereolithographic process."

The prior art such as Leyden (US Patent No. 5,143,663) and Evans (US Patent No. 5,248,456) teach apparatuses for layer manufacturing in a stereolithographic process but fail to teach "...cooling means having control means for keeping, at a temperature less than the melting temperature of the photohardenable resin composition, a photohardenable resin composition layer forming the same surface as a photohardened layer which has been already formed, in the overall or a part of the stereolithographic process; and heating means for heating unhardened photohardenable resin composition existing in an optical stereolithographic system up to a temperature above the melting temperature thereof at some midpoint of or after the end of the stereolithographic process..."

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5) Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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GNR

ROBERT DAVIS
PRIMARY EXAMINER
GROUP 1300 / 200

12/9/01